

MIRONOV, S.A., doktor tekhn. nauk, prof.; MALININA, L.A., kand. tekhn. nauk; FEDOROV, V.A., inzh.

Physicomechanical properties of concrete with compact and porous aggregates subjected to autoclave treatment. Trudy NIIZHB no. 32:88-109 163. (MIRA 17:1)

MIRONOV, S.A., prof.

Cements for winter concreting and for neat treated reinforced concrete products. Trudy NIIZHB no. 32:110-115 '63. (MIRA 17:1)

MIRONOV, S.A., prof.; BUZHEVICH, G.A., kand. tekhn. nauk

Results of concreting in regions of dry and hot climates in the U.S.S.R. Trudy NIIZHB no.32:137-152 '63.

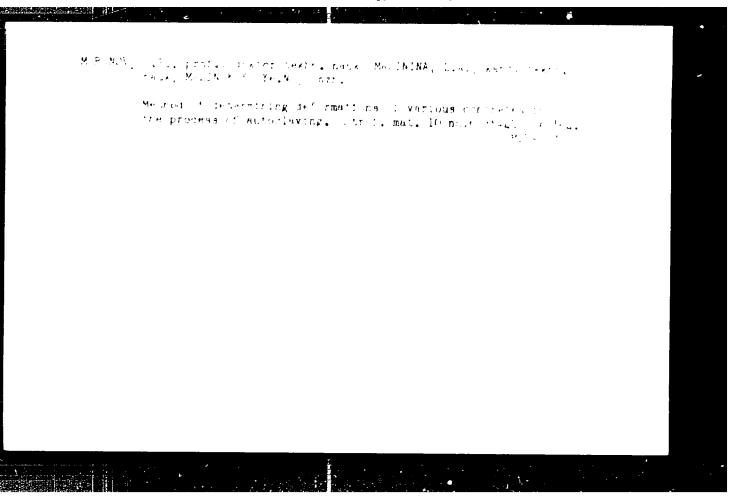
(MIRA 17:1)

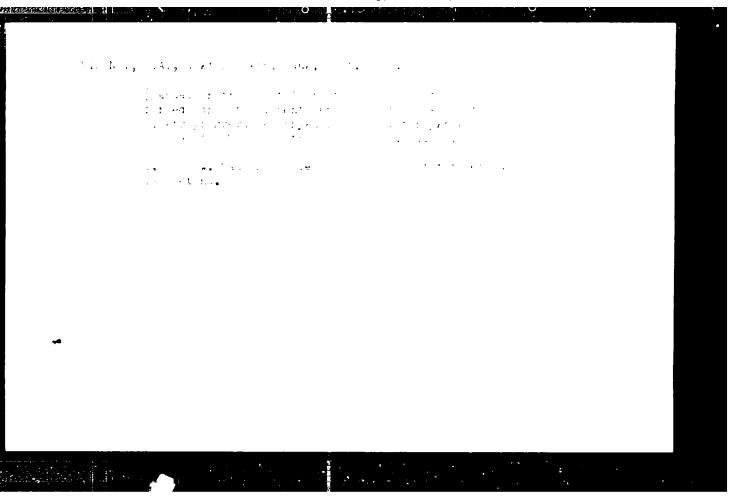
MIRONOV, S.A.; BARANOV, A.T.; BOEROV, O.D.

Theoretical requirements of the technology of production of heat-insulating gas concretes. Inzh.-fiz. zhur. 7 no.1:117-121 Ja'64.

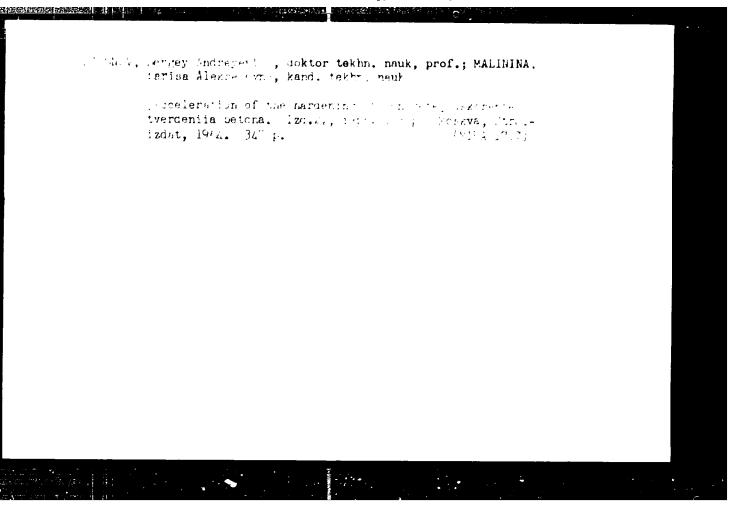
1. Institut betona i zhelezobetona, Moskva.

(MIRA 17:2)



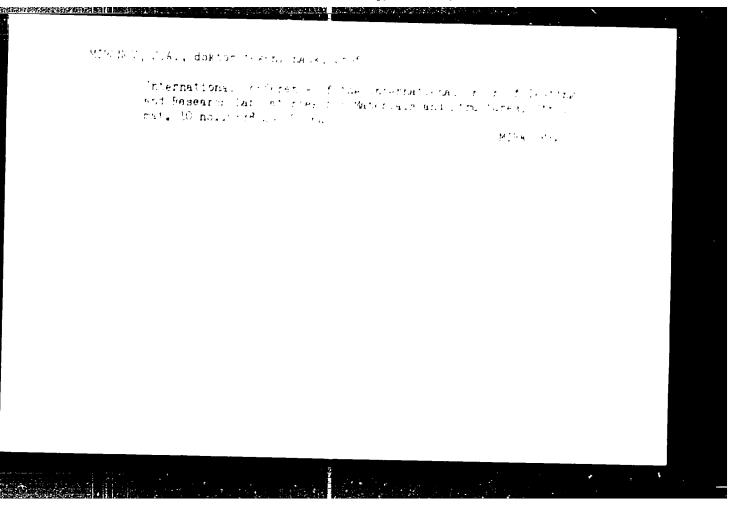


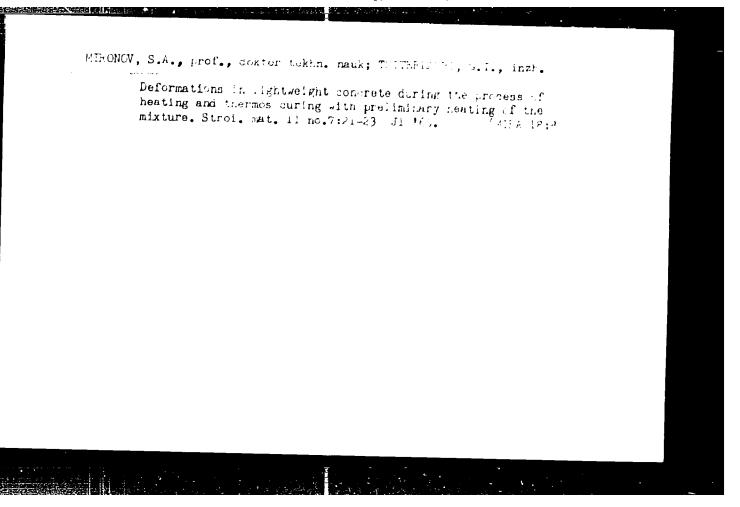
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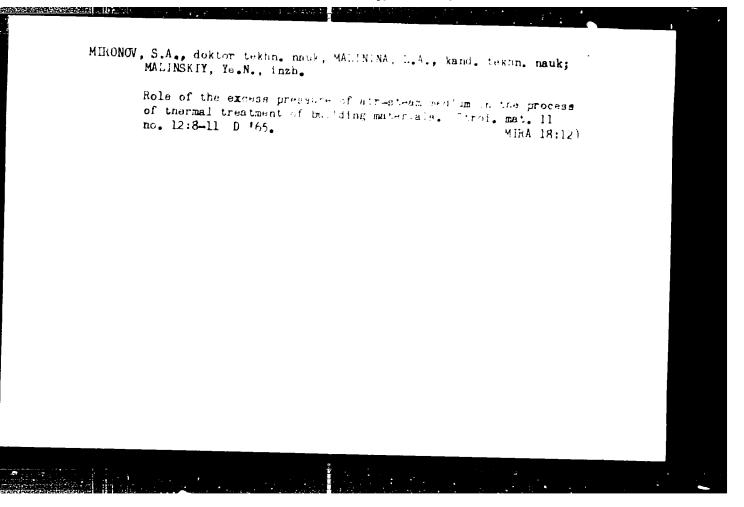


L 54521-65 EWT (m)/EWG(s)-2 Pw-4 ACCESSION NR: AP5018124 UR/0097/64/000/011/0525/0528 AUTHOR: Mironey, S. A. (Professor, Doctor of technical sciences) TITLE: Results of the RILEM International Conference on Problems of Accelerating the hardening of concrete ... SOURCE: Beton i shelesobeton, no. 11, 1964, 525-528 TOPIC TAGS: concrete, cement, civil engineering conference Abstract: The Conference (6-8 July 1964, Moscow) dealt with the most pressing problems in accelerating the hardening of concrete (in connection with industrial reinforced-concrete products), summarized the existing 4 experience in this field, and surveyed future research activities. Thirty countries were represented, 150 foreign scientists and specialists being present (total of 500 delegates); 77 reports were presented. The basic conclusions of the Conference were as follows: 1. Thermal hardening is not only the preferred technological method at the present time, but the only practical one in cold or moderate climates. To replace it would involve additional research, an improved product from the cement industry, and the use of special chemical accelerants. In addition, there is no apperent economy in the use of nonthermal methods. Card 1/2

ACCESSION NR: AP5018124  2. Research on thermal hardening is a prime necess acceleration of the hardening process can only be achievunderstanding of the physico-chemical factors involved gaps in the theoretical picture, and also numerous disaspecialists.	red with a better There are serious	
As practical means of accelerating hardening, indi- dealt with special cements, increasing the reactive cap- minerals (with respect to water), increasing the reacti- cement, increasing the hardening temperature, accelerat- of hydrates by introducing centers of crystallization, cal additives, and the use of physical methods of process	vidual reports scity of cement ve surface of ing the formation the use of chemi-	
ASSOCIATION: none		
SURAITYED: 00 EACL: 00	SUB CODE: MT	
NO REF 807: 000 OTHER: 000	JPHS	
<sub>rrd</sub> 2/2		







ACC NR. ARGO33556

SOURCE CODE: UR/0181/66/c08/010/2958/2964

MUTHOR: Gurevich, A. G.; Lebeu', B. M.; Mironov, S. A.; Starobineto, S. S.; Snevlyagin, K. V.

0.6: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodníkov AN SSSR)

TIPLE: Influence of the distribution of the magnetic field in a sample on the excitation of magnetoelastic waves

SOUNCE: Fizika tverdogo tela, v. 8, no. 10, 166, 2958-2964

ABSTRACT: In view of the disparity between the theory of magnetoelastic wave propagation, developed by E. Schlomann and R. I. Joseph (J. Appl. Phys. v. 35, 157, 167, 2382, 1964), and numerous experimental results, including those by the authors (Izv. An mechanism of the magnetoelastic waves, especially at different distributions of the internal magnetic field. The excitation was with a 1000 MHz generator operating in the pulsed mode (~1 µsec pulse duration) at maximum power ~0.5 watt. Single-crystal yttium garnet was used as the sample. The external field was homogeneous and parallel to the sample axis. The internal field was varied by attaching to the single-crystal sample additional polycrystalline yttrium-iron-garnets of different lengths. The tests consisted of measuring the delay time of the waves and the total losses of the magneto-

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001134

ACC NR. AP6033556

elastic pulses. The results showed that a series of magnetoelastic rulses was excited at all values of maximum gradient of the internal field (which ranged from 2000 to 3500 Ce/cm). No waves were excited when the internal field was uniform. The plots of the losses of the delayed pulses vs. the external field exhibit maxima and decrease with increasing field gradient. The damping of the pulse sequences is small (~2 db) and is practically independent of the field gradient. The upper limit of external fields at which excitation takes place is much higher than predicted by the theory of Schlomann and Joseph, but in weak fields the theory agrees with the dependence of the delay time and of the losses on the external field. The discrepancy in the case of strong fields may be due to the action of an additional excitation mechanism, confined to the surface of the sample, which was not accounted for in the theory. The authors thank G. A. Smolenskiy for discussing the results and A. G. Titova for supplying the single crystals. Orig. art. has: 6 figures, 5 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 01Mar66/ ORIG REF: 003/ OTH REF: 012

Card 2/2

$\frac{-\epsilon_{\perp}}{\epsilon_{\perp}} = 3\pi N(1) = 15 v(c)$	<u>,                                     </u>
ACC NR. APG020119 500ACE CODE: UR/0048/00/030/006/1002/1007	
Actual: Garevien, A.G.; Lebed', B.M.; Mironov, S.A.; Starobinets, S.S.; Titova, A.G., Constanting A.V.	;
C.G: Institute of Semiconductors, Academy of Sciences of the SSSR (Institut polu-	
Titul: Excitation of magnetoelastic waves Report, All-Union Conference on the Fugures of Perro-and Antiferromagnetism held 2-7 July 1965 in Sverdlovs	•
Joenen: At SSSR, Izvostiya, Soriya fizichoskaya, v. 30, no. 6, 1966, 1002-1007	
TOPIC TAGS: yttrium compound, garnet, single crystal, spin phonon interaction, magn	ieto-
Control of magnetoelastic waves in three single crystal yttrium garnet specimens from 2.5 to 0.9 mm long and from 2 to 5 mm in diameter having polished ends that were parallel within 15" and perpendicular to the [111] axis within 10. The constant external magnetic field was uniform and parallel to the axis of the specimen (the [111] axis of the crystal). The specimen was mounted between two identical cavit resonators, of which one served to produce the exciting high frequency magnetic field (which was parallel to the face of the specimen) and the other, to detect the transmitted wave. Magnetoelastic waves could be observed under optimal conditions with a face of 1/2	.y d
ard 1/2	

1. 08752-67 ACC NR:

AP 6029119

excitation power of the order of microwatts. The delay of the magnetoelastic wave decreased monotonically with increasing magnetic field strength in qualitative agreement with the theory of E.Schlomann and R.I.Joseph (J. Appl. Phys., 35, 159, 167, 2552 (1954)). The magnetoelastic waves were much less highly damped than is predicted by the schlomann theory. The authors discuss possible reasons for this behavior alternative to the suggestion of W.Strauss and F.G. Aggers (Appl. Phys. Lett., 6, 18 (1303)), Which they find unconvincing. Magnetoelastic waves were also observed in magnetic fields that were somewhat stronger than the maximum fields in which they should theoretically appear. It is concluded that further theoretical work is needed. The authors thank G.A. Smolenskiy for valuable discussions. Orig. art. has: 5 formulas and 5 figures.

SUB CODE:

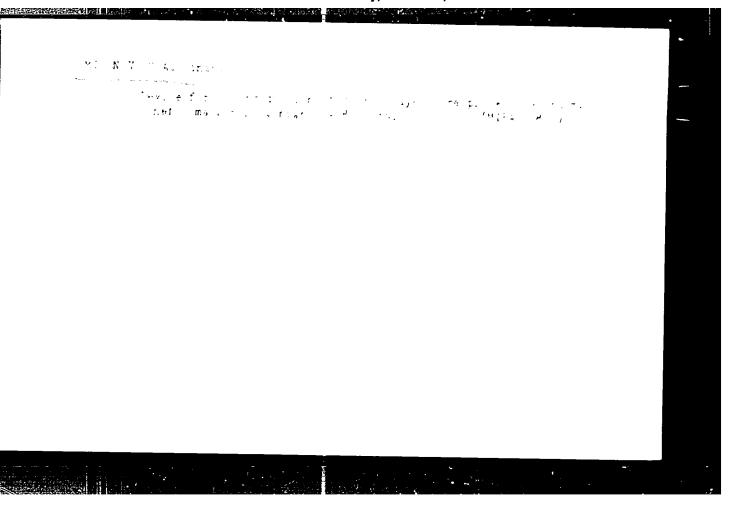
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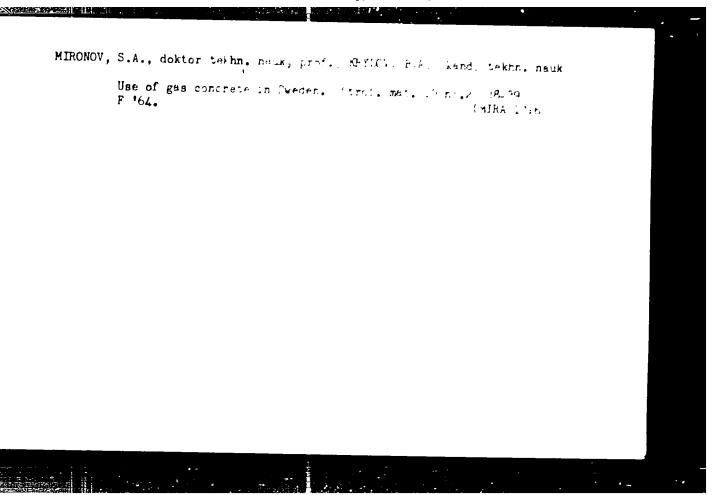
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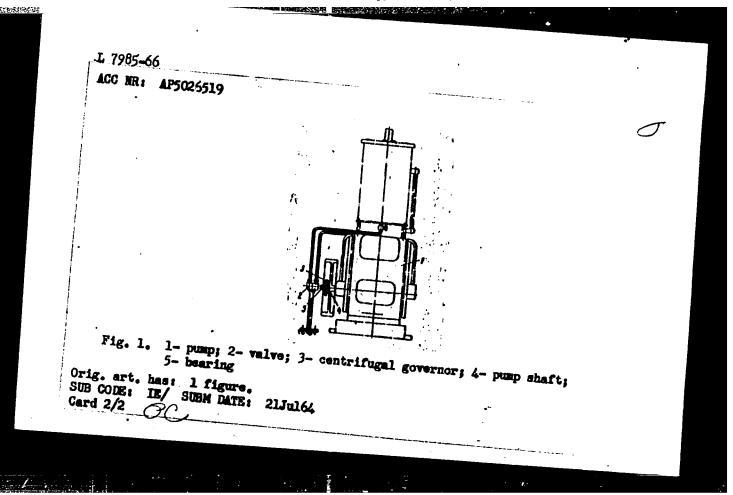
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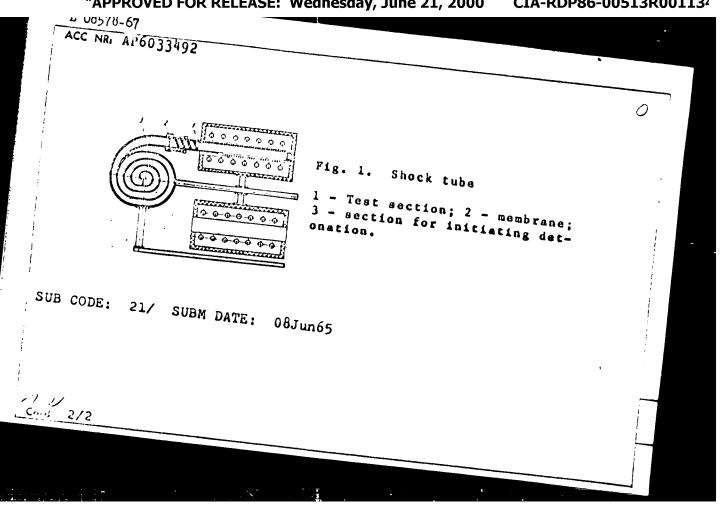


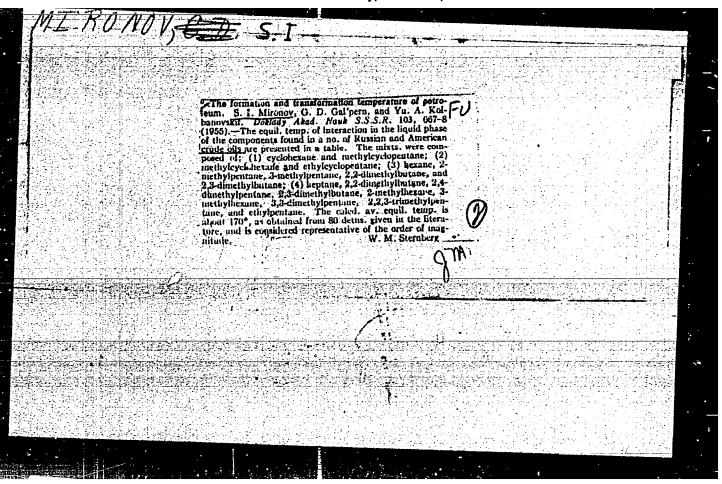
2\_

EWT(1)/EPA(s)=2/EWT(m)/EPF(c)/EPF(n)=2/T/ETC(m)L 7985-66 WW/DJ AP5026519 SOURCE CODE: UR/0286/65/000/019/0050/0050 **AUTHORS:** Gusev. V. I.; Mironov. ORG: none TITLE: A device for lubricating vacuum pumps. Class 27, No. 175165 Cannounced by Enterprise of the State Committee for Defense Technology, SSSR (Predprivative gosudarstvennogo komiteta po oboronnoy tekhnike SSSR) SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 50 TOPIC TAGS: pump, vacuum pump, mechanical engineering ABSTRACT: This Author Certificate presents a device for lubricating vacuum pumps. The device contains a cutoff valve operated by a centrifugal governor kinematically connected to the shaft of the pump (see Fig. 1). To simplify the construction, the governor is mounted on the shaft bracket, and the movable clutch of the governor is provided with a bearing which opens or closes the valve when the pump is being stopped or started. Card 1/2 UDC: 621.521-72



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PHASE I BOOK EXPLOITATION

Vasil'yev, Mikhail Vasil'yevich, and Sergey Zakharovich Gushchev

Reportazh 1z XXI veka; my zapisali rasskazy dvadtsati devyati sovetskikh uchenykh o nauke i tekhnike budushchego (Reports From the Twenty-First Century; Stories of Twenty-Nine Soviet Scientists on Science and Engineering of the Future) Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: G. I. Kleyeva.

PRIMIS

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by Soviet scientists) dealing with probable future progress in physics, chemistry, electricity, metallurgy, engineering, mining, medicine, biology, agriculture, zoology, transportation, exploration of space, and photography. Attention is given to automation, automatic underground gasification of coal, use of new metals, modernization of oil fields, atomic electric stations, production of metal parts by the process of explosion, explosions Card 1/7

Reports From the Twenty-First (Cont.)

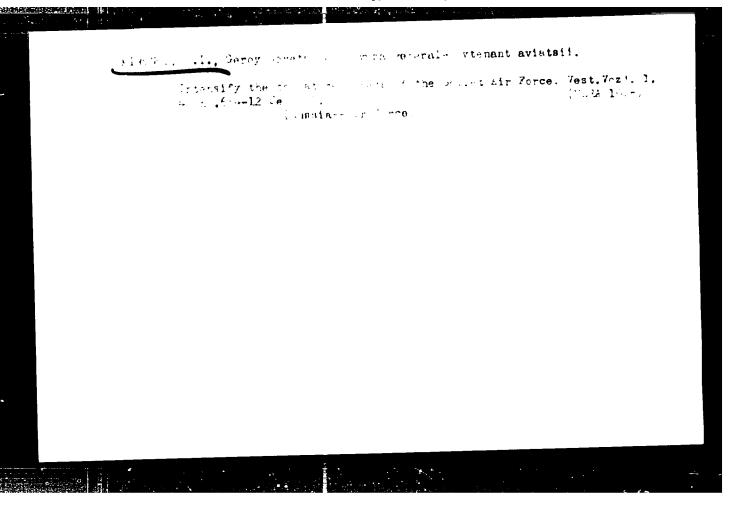
in dam construction, cancer, internal longevity reserves, machine diagnoses of illnesses, surgery vs. treatment by ultramachine diagnoses of fillesses, surgery vs. creatment by distance sonic vibrations, mechanical heart substitutes, human body banks, medical engineering, enriched fodder, superfertilizers, artificial snowfalls, agriculture vs. "mariculture", radiochemistry, power beam vs. wire, machines doing intellectual work, "HP autonetic rays focused above a city which cause heated molecules. modules (with "radio motors", "artificial sun" (electromagnetic rays focused above a city which cause heated molecules to shine), future ocean ships, "railway dreadnoughts", Moscow of the future, moving pavements, wheelless and driverless automobiles electric cameras the industrialization of Siheria mobiles, electric cameras, the industrialization of Siberia, use of underground heat, climate control, living on the moon, antimatter, and photon jet. Names of the interviewed scientists TABLE OF CONTENTS:

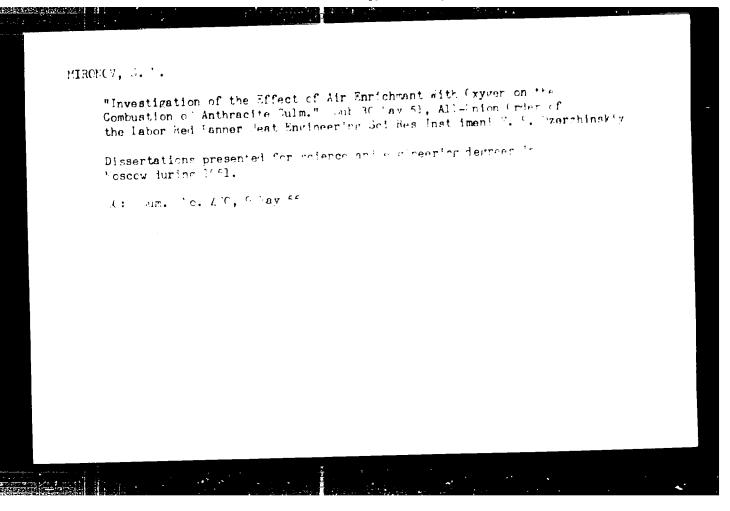
INTRODUCTION

Mission Into the Puture Card 2/7

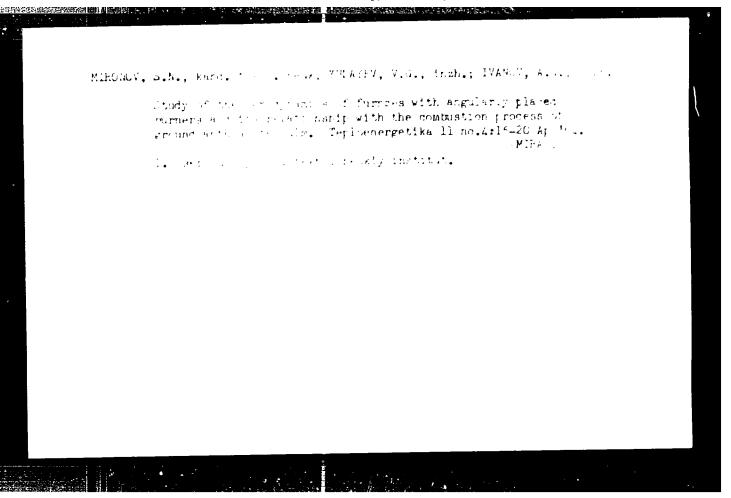
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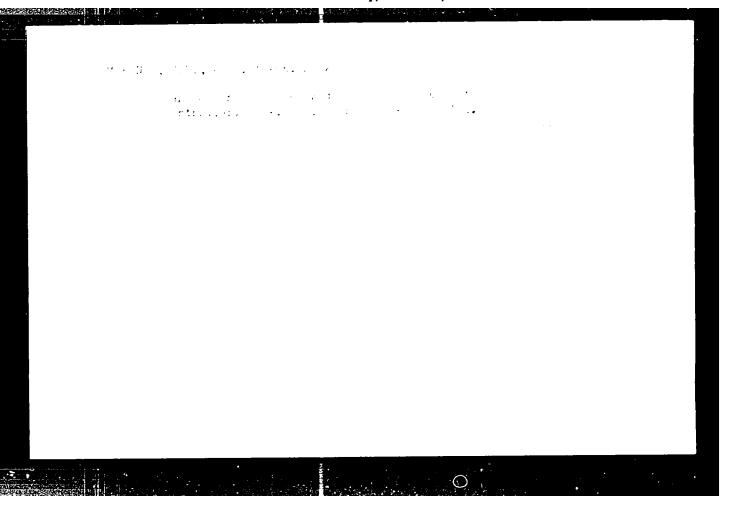
Reports From the Twenty-First (Cont.) SOV/5494	
Learn to Dream [A. N. Nesmeyanov, Academician]	10
THE FUNDAMENTAL AND MOST IMPORTANT THINGS	
Transformation of Elements the Future of Metallurgy [I. P. Bardin, Academician, Vice-President, AS USSR]	25
Mines Are Breathing Their Last [I. S. Garkusha, Director of Vsesoyuznyy nauchno-issledovatel'skiy institut "Podzemgaz" All-Union Scientific Research Institute of Underground Gasification of Coal and N. A. Fedorov, Deputy Director for the Scientific Section]	34
Automatic Oil Field [S. I. Mironov, Academician, and M. A. Kapelyushnikov, Corresponding Member, AS USSR]	45
From the Sources [A. V. Vinter, Academician]	51
Card 3/7	

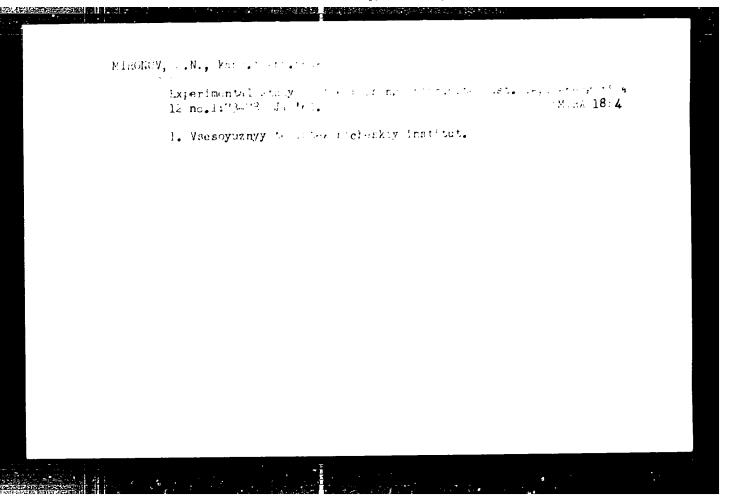




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MIRONOV, S. P.

USSR/Electronics - Communications
Pulse Systems

Sep/Oct 49

"Transients in Multichannel Pulse Systems With Pulse-Duration Modulation," S. P. Mironov, Engr

"Radiotekh" Vol IV, No 5, pp 52-63

Examines disturbances occurring as a result of limited channel band-width and frequency and phase distortions in the region of the modulation frequencies. Gives formulas and graphs for calcg these disturbances. Establishes tech requirements for the correction of frequency and phase characteristics. (Results confirmed by expt.) Submitted 11 Jul 49.

9,2/20 9.3275

\$/106/60/000/011/003/010 A055/A033

AUTHOR:

Mironov, S.P.

TITLE:

Calculation of Pulse Transformers with Annular Ferrite Cores.

PERIODICAL: Elektrosvyaz', 1960, No. 11, pp. 26-35

Pulse transformers with ferrite cores are particularly suitable for use in automatic office telephone circuits where the salient feature of the electric pulses is their rather long duration and their practically rectangular shape, as well as the low magnitude of the voltage and power involved. The low power of the transformer warrants the use of simplified calculation methods which do not take into account the losses in the cores. However, long duration pulses can be transmitted without distortion only when the inductance of the windings is sufficiently large, which implies an increase in the transformer's size and cost. The main problem in the calculation of such transformers is therefore to reduce to a reasonable minimum the consumption of expensive magnet wire by an adequate choice of the core size for given magnetic characteristics. The present article contains a so-Card 1/3

5/106/000/011/003/010

Calculation of Pulse Transformers with Annular Ferrite Cores.

lution of this problem in the case of pulse transformers with ferrite cores having a rectangular cross-section, the underlying condition being an undistorted transmission of the flat part of the pulses. The author states first the well-known magnetic conditions that must be satisfied for such undistorted transmission. He obtains then a formula giving the optimum volume of the core. A comprehensive discussion proves that the volume given by this formula is indeed the volume ensuring the most economical solution from the view point of the magnet wire to be used for the transformer windings. Having found this optimum volume the author works out, by a set of equations and comprehensive reasoning, the most advantageous relationships between the various parameters of the transformer, i.e., width and height of the rectangular cross-section, the inner radius of the core and the number of turns of the windings. The obtained results are illustrated in a practical example. where optimum numerical values of the width and height of the cross-section of the inner radius of the core and of the number of turns of the primary and secondary windings are given in the case of an experimental transformer.

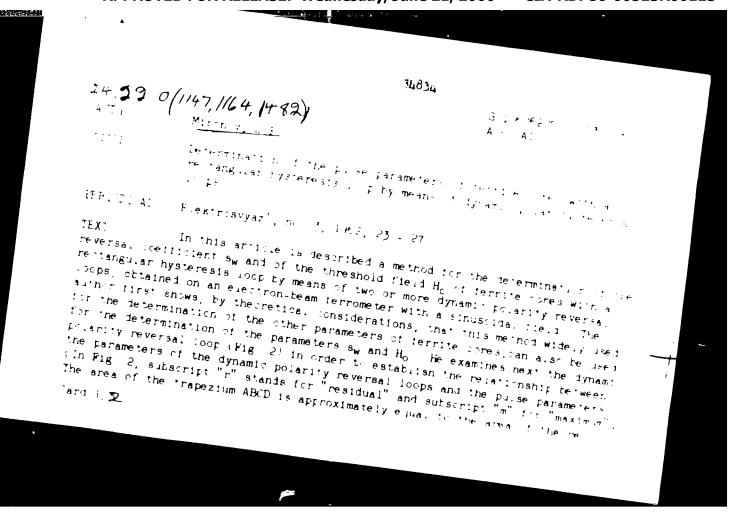
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A055/A035

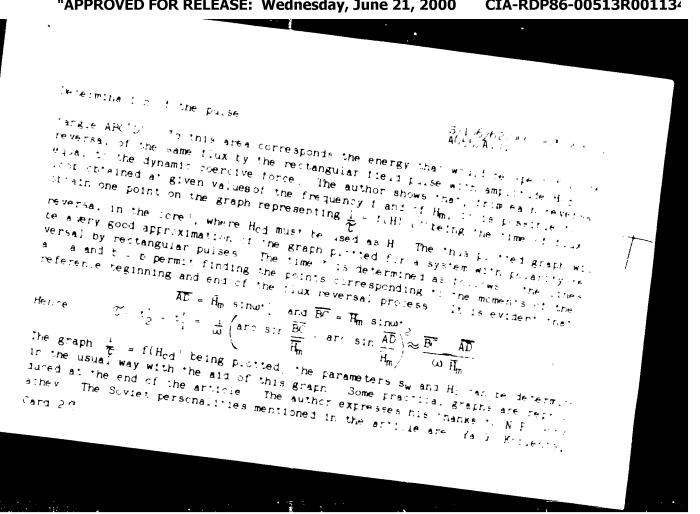
Calculation of Pulse Transformers with Annular Perrite Cores.

There are 4 figures and 4 references: 5 Soviet and 1 non-Soviet.

SUBMITTED: April 8, 1960

Card 3/3





MIRONOV, S.P.

Evaluation of the parametric potentials of a diodeless shift register using two-opening transfluxers. Elektrosviaz' (Blectric networks)

(Pulse circuits)

(Ferrites)

L 01789-66.

ACCESSION NR: AP5020888

UR/0106/65/000/008/0069/0076 621.374.328

AUTHOR: Mironov, S. P.

TITLE: Transfluxor logical circuit [Based on the report at the 20th

SOURCE: Elektrosvyaz , no. 8, 1965, 69-76

TOPIC TAGS: logic circuit, transfluxor, computer device, magnetic

ABSTRACT: A brief analysis of transfluxor logic is presented with a view toward evaluating transfluxors for industrial applications where is a double inverter stage, shown with associated drive currents. This circuit was fully discussed in the Bell System Technical Journal, no. 2, 1960. It has a two-turn output winding capable of driving two logical OR gates, with the basic unit, it is possible to build when noise compensation techniques are applied. Other logic blocks Card: 1/2

L 01789-66

ACCESSION NR: AP5020888

NOT, AND, NOR, NAND, and other logic circuits can be constructed with fan-out capabilities of 6. An eight-stage binary counter with exclusive OR gates and a ten-stage shift register based on transfluxors were built and tested. Transfluxors with the following characteristics were used: mean magnetic path of the large aperture, 1.3 cm; mean path of the small aperture, 0.5 cm; switching flux, 0.24 x 10-6 v-sec; static coercive force, 0.5 oe; switching factor 0.35-0.4 oe-usec. The counter and the shift register performed satisfactorily at a 5-kc clock frequency in an ambient temperature range of 0-60C, with driving pulses with a height of 5-6 amp, duration of 8-10 µsec, and rise time at 3-4 µsec. Orig. art. has: [BD]

ASSOCIATION: indue: 4

SUBHITTED: 15Sep64

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ATD PRESS: 4686

**APPROVED FOR RELEASE: Wednesday, June 21, 2000** 

CIA-RDP86-00513R001134

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MIRONOV, Serrey Semenovich. State Sci. Res.

Planning Ind. for Trocessing Non-Ferrous Witals, -194 -
Dir., an inst.,
"Development of Nonferrous Metal Factories Production for
the Period 1917-1947," Tsvet. Met., No. 5, 1947. Stalin
3rd Prize, 1949 v 1950, pure metal.
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, ,/17/-, -9-- (4)

AUTHORS: Mironov, S.S. and Fendik, A I

TITLE: Our Friendsnip with the Chinese Peoples Republic

PERIODICAL: Tsvetnyye metally, 1957, Nr. 9, FI 4-10 (USSR)

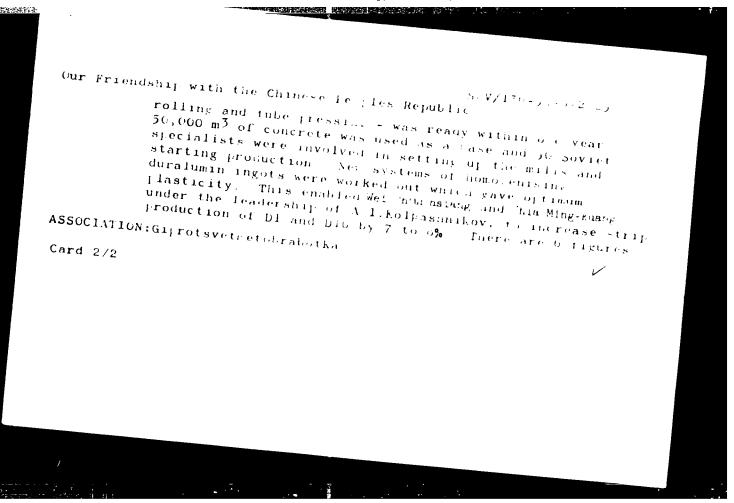
ABSTRACT: There has been close cooperation between

"Giprotsvetmetobrabotka" and FekingInstitute of
Non-Ferrous Metallurgy of the Chinese Leoples Republic
Equipment for rolling and tube pressing of aluminium
was made in the Soviet Union for use in China. An air-

circulating electric furnace (Fig 1) was used for homogenization of D1 and D16 ingots. Each furnace will take four ingots, 200 x 1400 x 5010 mm and is 720 kv lts accuracy is ± 5°C. For hot rolling aluminium strip a reversing hot mill "2000" (Fig 2) was constructed with the help of the Novo-Kramatorsky Michine-Construction works. For cold rolling a 4-high mill from trainashzavous

Works. For cold rolling a 4-migh milt of 5 to 6 m/second was used (Fig 3). It has a maximum rate of 5 to 6 m/second A high rate production line for continuous finishing of strip was worked out with Giplotsvetmetobrabotka and prepared at the Staro-Kramatorsky Macaine-Construction Works. It was used with great success by the Chinese

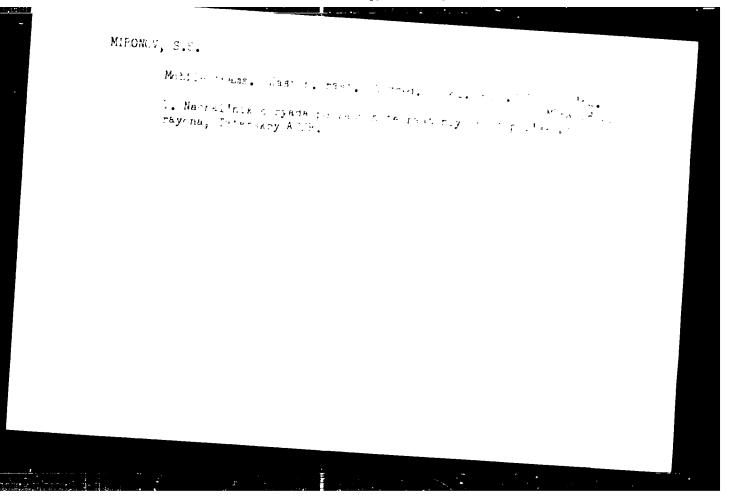
Card 1/2 (Fig 4 and 5) The equipment for the two main mills -



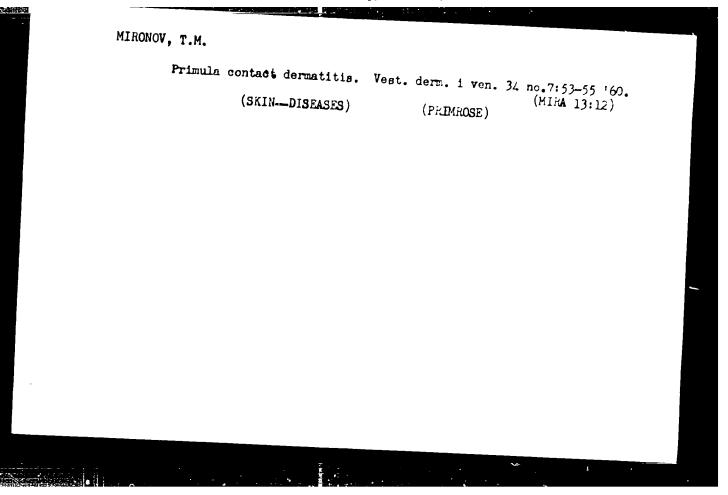
MIRONOV, S.S., agronom po zashchite rasteniy (Chistopol'skiy rayon,
Tatarskaya ASSR)

Using all possibilities for effective protection of crops. Zashch.

Using all possibilities for effective protection of crops. Zashch.
rast.ot vred.i bol. 7 no.6:1-2 Je '62. (MIRA 15:12)
(Chistopol' District-Plants, Protection of)



ACC NRi AP6030608  (A, N) SOURCE CODE: UR/0413/66/000/016/0095/0095  INVENTOR: Bobylev, A. V.; Mironov, S. S.: Nikolavev, A. K.; Strakhov, G. V.;  ORG: none  THUS	
TITLE: Copper-base alloy. Class 40, No. 185068 [announced by the State Scientific-Research and Design Institute for Alloys and Processing of Nonferrous Metals tsvetnykh metallov]  SOURCE: Izobreteniya, promyshlennyve obraztsy, tovarnyye znaki, no. 16, 1966, 95	7
ABSTRACT: This Author Certificate introduces copper-base alloy containing composition is set as follows: 0.2-17 chromium, 0.1-0.87 zirconium, and 0.01-1.07	
SUB CODE: 11/ SUBM DATE: 10Feb65/ ATD PREST: 5076	
UDC: 669.35'26' '292'296	



MIRONOV, T.P.

Determining the mean values of the tasic parameters of cil reservoirs with a given degree of accuracy based on a study of the Tuymazy oil field. Nefteprom. delo no.2:9-12 165.

(MIRA 18:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhniko-ekonomicheskikh issledovaniy po neftyanoy, neftekhimicheskoy i gazovoy promyshlennosti.

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MIRCHOV, T.V.(Moskva)

Readers opinions about "Mediteinskaia Sestra." Med. sestra no.11:
28-30 N '55.

(MIRA 9:3)

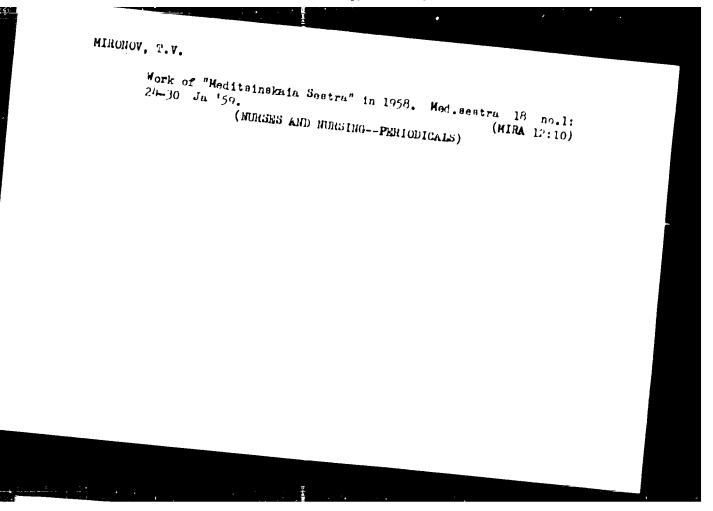
(NURSES AND NURSING--PERIODICALS)
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MIRONOV, T.V.(Moskva)

The work of "Meditsinskaia sestra" in 1955. Med. sestra no.1:3-6

(MLRA 9:3)

(NURSES AND NURSINO--PERIODICALS)
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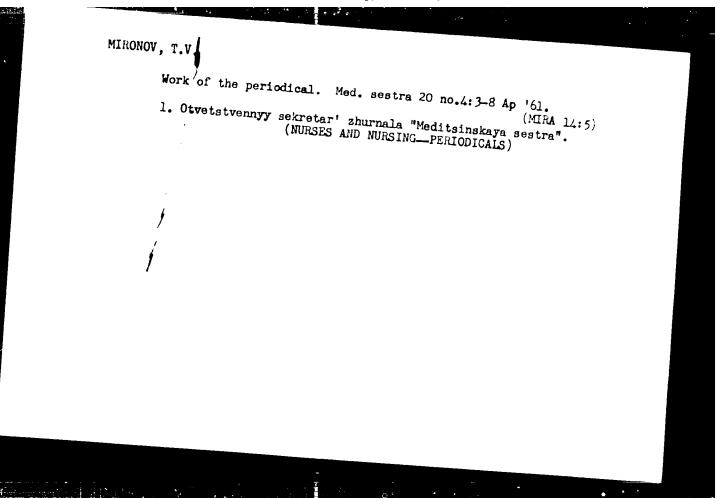


NEKLYUDOV, Aleksandr Kuz'mich, brigadir; MIRONOV, T.V., red.; MATVEYEV,
A.P., tekhm. red.

[In our mixed brigade] V nashei kompleksnoi brigade. Moskva, Izdvo "Sovetskais Rossiia," 1961. 15 p. (MIRA 14:12)

1. Kompleksnaya brigada kolkhoza "Druzhba" Kiyasovskogo rayona
Udmurtskoy ASSR (for Neklyudov).

(Kiysovo District—Collective farms)



Our journal in the year 1961. Med. sestra 21 no.4:3-7 Ap '62.

1. Otvetstvennyy sekretar' zhurnala "Meditsinskaya sestra".

(NURSES AND NURSING—PERIODICALS)

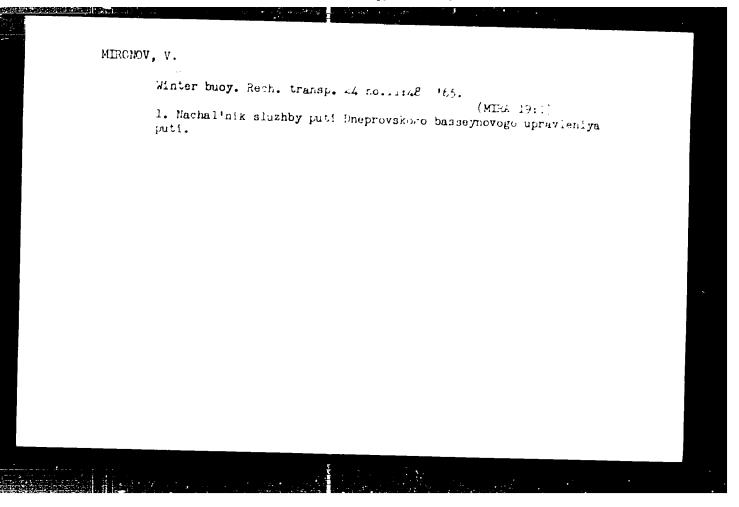
KHUBLAROV, Vitaliy Ashotovich; SHCHERBAKOV, Anatoliy Ivanovich; MIRONOV, T.V., red.; DZYUBA, G.N., tekhn. red.

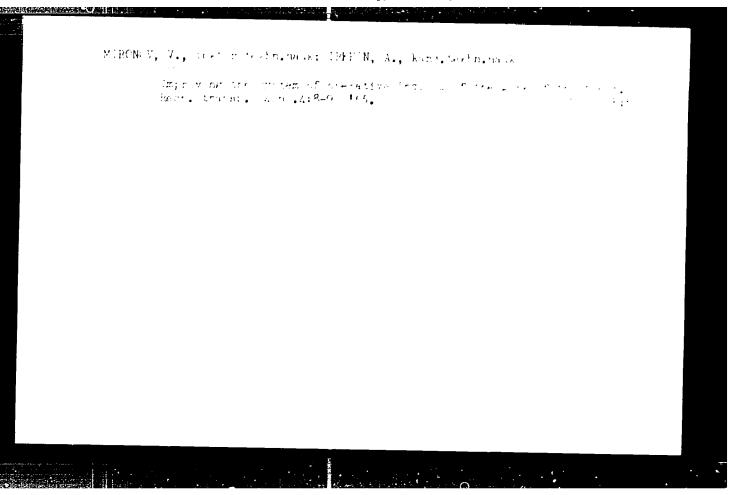
[The workers' thoughts flashed] I zasverkala rabochaia mysl'. Moskva, Sovetskaia Rossiia, 1963. 55 p.
(MIRA 17:3)

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MIRONOV, T.V.

Work of the periodical "Meditsinskaia sestra" in 1962. Med.
sestra 22 no.442-47 Ap '63. (MIRA 1617)

1. Sekretar' zhurnala "Meditsinskaya sestra".
(NURSES AND NURSING—PERIODICALS)
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MIRONOV, V., kand.tekhn.nauk; LTPICHEV, E., laureat lesudarstvenney premii

Flexible containers for the transportation of petreleum products.
Rech. transp. 22 no.7:11-12 J1 63. (NIRA 16:9)

(Petreleum-Transportation)

(Tewing)

SEMENOV, B.F.; KARASEVA, P.S.; PARIZH, B.M.; MIRONOV, V.A.

Dry tissue vaccine for preventing tick-borne encephalitis. Vop. virus.7 no.5:613-614 S-0 '62. (MIRA 15:11)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov. (VACCINES) (ENCEPHALITIS)

• 0

Premet', V.B.; VASIL'YEV, G.M.; MAKUKHIWA, A.M.; MIROHOV, V.A.

Production of feed blomycin and vitamin B<sub>12</sub> in alcohol plants. Spirt.prom. 26 no.4:8-10 '60.

(MIRA 13:8)

(Biomycin) (Gyanocobalamin)

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FREMEL', V.B.; VASIL'YEV, G.M.; MAKUKHINA, A.M.; MIRONOV, V.A.; SHISHKOVA, E.A.

Utilization of distilling washes from alcohol and acetone-buty, alcohol plants in the production of feed antibiotics. Spirt.-prom. 28 no.2:26-27 '62. 'MIRA 15:1)

1. TSentral'nyy nauchno-isaledovatel'skiy institut spirtovoy promyshlennosti. (Distilling industries--By-products) (Antibiotics)
```

12(7)

AUTHORS:

Mironov, V.A., Koryayeva, A.I.

TITLE:

The Tests of the Clutched of the YaAZ Autom bloom

(Ispytaniya stsepleniy avtomotiley YaAZ)

PERIODICAL:

Avtomobil'naya promyshlerrout', 1979, Nr. 1, jj.

19, (USSR)

ABSTRACT:

At the Yaroslavskiy motornyy zavod Yaraalavi Emana Plant) series and experimental clutches of promphase. MAD-200/205 and YaAZ-210 were tested. Further, to disk experimental clutches for weblinder with the 240 HP, having a torque of the Court, here tested. The pressure disk and the flywheel were to be of alloyed cast iron with the following chember, were

position: 2.3 - 2.5% Si; 0.12% S (max.mam); .19 0.4% Cu; 0.2% P (maximum); 0.6 - 0.86 Mn; 6.6 - 0.45% Cr; 0.12% Ni (minimum); 0.65 - 1.6% Ti. 1.6% friction lining consisted of the assested a spound 7KF-31. The clutches were tested on an inertial to

stand used also for brake testing, Figure 1, with an

Card 1/3

307/11/-1 - - 1

The Tests of the Clitches of the YAAR Astemphiles

inertia moment of the rotating masses of 11.70 games corresponding to the inertia moment of the estate moving mass of an automobile under considerate a the influence of the potation mades of the bale wheels. The author presents in Table 1 and me parison of the friction factor reduction of the clutches for the MAZ-PCC and the YaAZ-! after having performed a servain lemit of ervice and after a certain number of operations on the test stand. The author concludes that a considerable reduction of the clutch moment is characteristic for the clutches of the YaAl automobiles sever income the length of service up to 30%), whereby the morning tude M clutch moment) cannot be restored by adjustments. For reigning the factor of alute reserve, a lining with a constant friation factor of recommended. The clutch moment changes a harmonic recommended. ably in dependence on the init al migwhereby its maximum value is observed at 100-500 rpm; the clutch moment in reduced with a further

Card 2/3

The Tests of the Clitches of the YeAZ Altomibiles

rpm increase. The clutch factor increases with restance temperatures of the clutch linings between and 140. Beginning at 120 if decreases. Finally, it was established that the friction coefficient of the clutch facing on the YaAZ automobile increases from 0.2 to 0.340 when increasing the specific try same from 1.5 to 3 kg/cm at a temperature of 120. It increases from 0.225 to 0.36 at a temperature of 150. There are 1 lagram, a trains and 2 to 12.

ASSOCIATION: Yaroslavskiy motornyy zavod (Yaroslavl' Engine Plant)

Card 3/3

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MIRONOV, V.A.; LISITSYN, V.S.

Hew pneumatic power steering mechanism. Avt.prom. no.6:22-23
Je '60. (MIRA 13:3)

1. Yaroslavskiy motornyy savod.
(Automobiles--Steering gear)
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ALEMSTER, A.S., kand fiv.-matem mank: MIRWLW, V.A., 1971.; Facustrold, also, 1971.

System of automatic addressing and fourting on a cospensed jumper-type conveyer. Mehr. 1 a.M.m.prolyv. 15 no.12:47-50 u. 171.

(Fig. 1981.)

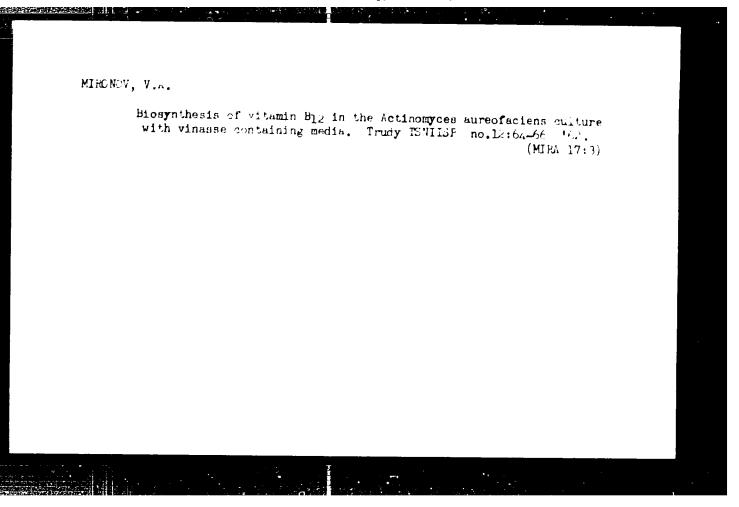
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ZAMAKHAYEV, Mitrofen Semenovich; MIRONOV, Viktor Aleksandrovich;
IYEVLAVA, T.A., red.; GALAKTIOHOVA, Ye.M., tek'nn.red.

[Road foreman's manual] Posobie desistniku dorozhniku.
Izd.3., perer. i dop. Moskva, Nauchno-tekhn.izd-vo M-va
avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1958.

287 p. (MIRA 12:12)

(Road construction)



## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

MIRENCE, VH.

AUTHORS:

Flid, R. M., Mironov, Y.

TITLE:

The Kinetics of Liquid Phase Hydrobrominatic of Abouty, ene in the Presence of Mercury Salts (Kinetika znilkofaznog) gidrobromirovaniya atsetilena v prisutstvii soley rtati

--- 31/1

PERICDICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr. c. 44.347-38, (USDR)

ABSTRAUT:

There exist relatively few scientific papers on the catalytic interaction in the liquid phase of acetylene with hydrohalides in presence of mercury salts. Acetylene hydrotromination has been investigated only in the gaseous phase. According to the data available, there are formed, in addition to browingly also different isomers of dibromethane or their mixtores. From reactions of hydrochlorination and hydrotromination in asymmetrical adducts were identified among the dibalide terrivatives. Because production of both isomers of dibromethane appeared to be possible, the authors of the paper under review carried out the investigation outlined in the title of the present paper. A. The influence of the relation between

Card 1/5

The Kinetics of Liquid Phase Hydrobromination of Acetylene in the Presence of Mercury Salts

reagents upon the degree of conversion of acetylene. It was determined that the total degree of acetylene conversion as well the yield of vinylbromide and ethylidendibromide do not depend on the relation between the reagents, this relation varying within the limits HBr :  $C_2H_6 = 0.5$  : 4. The lepon tence obtained made it possible, completely obviously, to determine the zero-kinetic order of the reaction with respect to hydro bromine. B. The influence of the contact duration upon the speed of the acetylene hydrobromination. The kinetic measurements showed, (1), that the formation of 1,1-dibromethane is the result of a simultaneous attachment of two molecules of HBr and  $O_{\gamma}H_{r_{1}}$ , without vinylbromile participating as intermediate product; thus the reactions of formation of vinylor mide and of ethylidendibromide are two independent parallel reactions; and (2), that both parallel reactions are of fmet order with respect to acetylene with a hampering by the two reaction products. C. The influence of the concentration of mercury bromide in the contact solution upon the speed of the acetylene hydrobromination. As can be seen from Chart Nr of the present paper,  $\alpha$  increases monotonously when the concentration of HgBr $_2$  is increased,  $\infty_1$  goes through a maxi-

Card 2/5

The Kinetics of Liquid Phase Mydrouromination of Acetylene in the Presence of Mercury Salts

mum, and  $\infty$ , increases rather sharply. Pais fact can be connected with the increase in the probability of the limit of between the acetylene molecule and two molecules of the  $\alpha$ talyzer when the concentration of HgBr, is increased. There exists reason to issume that the reaction is catalyzed by the ion HgBr, because HgBr, being saturated with respect t the coordination, can flardly participate in the activation of acetylene. On basis of kinetic equitions, speed constants of the reactions were computed for all four sencentrations of the catalyzer; the values of these constants increase as the concentration is increased. The authors of the paper under review maintain that the activation of acetylene is based on a withdrawal of the doublets of  $\infty$  electrons If the limiting stage of acetylene hydrobromination is supersed to be its activation, a "sympathy" must exist between the jotential of exidation, as neasure of its accept ris pullity and its catalytic activity. Reproduction or the prosent paper shows that the linear dependence between ig A

Card 3/5

The Kinetics of Liquid Phase Hydroproplation of Anetylene of Pressure of Mercury Salts

constant of the speed of the reaction arise for the reactions of hydrobromination, and the total orders of acetylene is preserved. In this context, the hay playing cause for the increase in speed of the reaction is too lecrease in activation energy as the value of \$\inComeasing\$ increases. The linear form of the function light makes it possible to state that the acetylene activation is the limiting stage of the processes of hydrobromination. There are \$\inComeasing\$ figures 2 tables, and 4 references, 1 of which is Soviet

ASSOCIATION: Moscow Institute for Fine Chemical Techn 1 sy imen.

M. V. Lomonusov

(Moskovskiy institut tonkby khimicheskoy tekhnologi

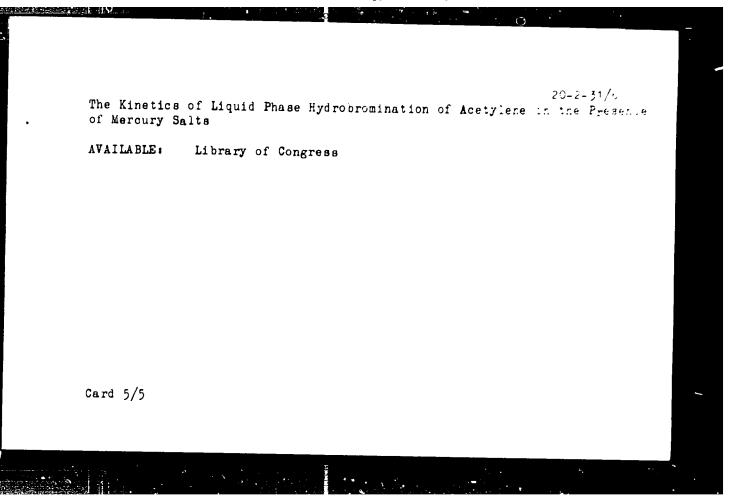
im. M. V Lomorojova)

PRESENTED: December 14, 166, by I M. Nazarov, Member in the Actie of

SUBMITTED: December 7, 1956

Card 4/5

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134



AUTHORS: Nazarov, I. N. (Decembed), Makin, 3. M., SOV/79-29-1-35/74

Kruptsov, B. K., ironov, V. /.

TITLE: Synthesis of Acetels and Ketals by Means of Tetraalkoxy-

Silanes (Sintez atsetalcy i ketaley s pomoshch'yu tetraalkoksi-

silanov)

Card 1/3

PERIODICAL: Zhurnel obshohey khimii, 1959, Vol 39, Nr 1, pr 10--111 (UCSR)

ABSTRACT: It is known that the most suitable acetylating agents are the esters of the ortho-formic acid. Owing to their high costs

they can however not be used as initial substance for the synthesis of acetals. As a substitute for the above esters the authors chose the ensity available esters of the orthosilicity acid (tetraalkoxy-silanes). Helferich and Hansen (Ref 1) found that the tetraalkoxy-silanes are able to acetylate aldehydes and ketones in alcoholic medium in the presence of hydrogen chloride. The authors met however with many difficulties at the attempt to obtain some acetals and ketals according to this method and the yields were also small. For this reason, they investig ted thoroughly the reaction of

the tetra lkoxy-silones with oldehydes and ketones under differ-

ent conditions. On the reaction of acetone with

Synthesis of Acetals and Ketals by Means of Tetraalkoxy-Silanes

SCV/79-19-1-25/74

tetraalkoxy-silane they used HCl, concentrated  $\mathrm{H_{2}SO_{4}}$ ,

p-toluenesulfonic acid, phosphoric acid, etc. as catalysts for the acetylation. Phosphoric acid proved to be the most suitable catalyst. In contrast with the general opinion, tetrealkoxy--silanes react well with aldehydes and ketones in the presence of some alcohol. Thus the diethyl ketal f acetone with tetraethoxy-silane was obtained in 93 % yield, on addition of 0.5 % alcohol only. Many other acetals of various aldehydes. ketones, etc. were synthesized 'lso wit' good yields and very limited use of alcohol. The small alcohol quantity is important in the synthesis of low-boiling acetals and ketals: It is thus possible to obtain in the distillation the acetal and ketal with minute alcohol quantities which can easily be removed by water, which is rather difficult at higher quantities of alcohol. In the synthesis of high-boiling acetals the amount of the easily separable alcohol is of no importance. In the acetylation of the croton eldehyde the alcohol quentity is of particular importance: At 0.1-0.2 mol alcohol with 1 mol aliehyde dimethyl and diethyl ecetal were resulting in a yield

Card 2/3

Synthesis of Acetals and Ketals by Means of Tetraalkoxy-Silanes

SOV/79-29-1-25 '74

up to 90%. On addition of more than 1 not alcohol 1,1,3-trialkoxy-butanes are formed as main products (Ref. 2). Without any alcohol the reaction yields 47% only. For the removal of the acetals and ketals two methods were a plied according to whether they are lower or higher boiling than the tetraalkoxy-silanes used in the reaction (see experimental part). The diethyl acetals of the croton aldehyde and methyl heptenone were obtained in good yield by the estars of ortho-formic acid as well. Both tables present all acetals and ketals synthesized. There are 2 tables and 7 references, 1 of which is Soviet

ASSOCIATION:

Moskovskiy institut tonkov khimicheskov tekhnologii Moscow

Institute of Fine Chemical Aschnology

SUBMITTED:

July 19, 1957

Card 3/3

AUTHURS: Mezarov, I. N. (Deceased). 364 79- 9-1-01 174 Makin, S. A., Krujtsov, B. K., Mironov, V. A. Synthesis of Vinyl and Diene Ethers 'Sintez prostykh vinilo-TITLE: vykh i diverbyykh ofirovi Zhurnel .ts.oney khimii, 1964, Vol 79, Nr 1, rp 111-117 ("338) PERIC DICAL: ABSTRACT: In the passage of the vapors of dimethyl and diethyl acetals of the adetone of acetic acid, probione, buturic acid, inbutyric acil, as well as of the dimethal an diethal ketals of actions and cyclohexanona over "a" PO, and Mattro, (as catalysts) at 300-3750 the authors obtained the substituted vinyl ethers listed in t ble 1. The simple liene ethers are considerably interesting in organic chemistry since they nossess two conjugated double bunds and a reactive alkoxy group. Furthermore, methoxy and ethoxy isoprenes were synthesized and the methoxy and ethoxy butadienes previously described (Refs 7,0,0) were investigated. The alkoxy dienes specified were obtained by catalytic cleavage of the acetals of croton and  $oldsymbol{eta}$  -methyl--croton altenyde, as well as of the 1,1,3-trialkoxy-butones and 39rd 1/3 1,1,3-trialkcxy-\* methyl butanes. The dimethyl and diethyl

Synthesis of Vinyl and Diene Ethers

SCV/79-24-1- 6/74

ncetals of \(\beta\) mathy: conton alienyde were synthesized according to scheme 1 in the presence of small quantity of  ${}^{\circ}F_{\pi}.0(C_{2}H_{5})_{2}$ , the butenes mentioned according to reference ? and somewar 2 (Refs 11,1) 15,16). The cetalytic cleavage of the scotals of croton and B-mathy: Freton aldehyde, as well as of the trielkoxy butanes in a the simple diene ethers were thus carried out on the intelliging NaH, PO and MgHPO . Active charmonl, silion of Lound wiess were used as corriers. This process proceeded in victium '0-20 mm in the notice our cont (Scheme 3) The maximum yield of ethoxy-isoprene was attained on the datalysts MgHPO on active characal and MgHPC, VaSiC, (Table 2). Is to surability,  $MgHPO_4$  on charcoal proved to be the best intely to The entirely of the cotacy to produced from NaH, PO, decreases more rapidly. On the catalytic elegans of the 3-methyl-1,7-dimethrxy-1-ethoxy-butene a mixtur from methoxy- and ethoxy-isoprene resulted in about the date quantity. There are a tables and 16 references, 8 of which are Soviet.

Cart 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001134

Synthesis of Vinyl and Diene Ethers

ASSOCIATION: Moskovskiy institut tonkoy kinninheakoy terincismi ilisec w Institute of Pine Chemical Technology)

SUBMITTED: September 10, 1957

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

Card 3/3

CLEANING THE SECTION OF THE SECTION

5(4) 517 76-17-1-20 11 AUTHORS: Flid, R. M., Mironov, V. A., Ostrovec ye, V. M., Aronova. ". I. TITLE: The Kinetics and Mechanism of the Catalytic Conversion of Acetylene (Kiretika i mekhanizm kataliticheskikh prevrashcheniy stretilena). III. The Kinetics of the Hytrohalorenation of Acetylene in Liquid Prose in the Ereca de of Mercury Salts (III. Kinetika z lidkof znogo gitric i ilimvaniya atsetilera v prisutstvii coley rtuti) PERIOTICAL: Zhurral fizioherkoy khitii, 150, Vol 37, Nr 1, pp 119 = 128 (TTR) The catalytic addition of hydrogen halide to anotydene in APSTP ST: the presence of mercury solts had already been carri 1 at for several times but the data obtained were incombete and contradictory. In the case under review tests were conflucted with HCl, HBr, and HJ. The testing method and the testing apparatus were already described (Ref. 1). The following products were obtained: On hydrochlorination vinyl chloride only; on hydrobromination vinyl bromile and Card 1,'3 1,1-dibromoethere, and on hydroiclination only 1,2-iii do-

The Kinetics and Mechanism of the Catalytic Conversion of Volume 12 to 15 of Acetylene. III. The Kinetics of the Hydrohalogenation of Acetylene in the Presence of Mercury Salts

version decree of acctylare and the yield of reaction products at various te perstures and verying for tion of the reaction were investigated (Table 2). The reaction velocity is shown by a kinetic equation of the first order (with ducts formed. The temperature influence was determined (Table 3), the retivation energies were calculated or an unusual cannot of the temperature coefficient at the hydrochlorin tion reaction was observed. In all cases, a linear dependence between the locarithm of the velocity counters and the values of the oxidation potential of the cort of solution, with a rious HeX2-corcentrations, was observed.

It is assumed that acetylene is activated by taking out a doublet of  $\pi$ -electrons by the catalyzer whereby the acetylene molecule is leformed. There are  $\gamma$  figures, 4 tables and 5 Jovict references.

Card 2, 3

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

The Kinetics and Meclarism of the Ostalytic Conversity (1977) (19

MIRONOV, V.A.; SOBOLEV, Ye.V.; YELIZAROVA, A.N.

Some features of equilibrium transformations of substituted cyclopentadienes. Izv. AN SSSR. Otd.khim.nauk no.11s2097-2078 N '62. (MIRA 15:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR i Komissiya po spektroskopii AN SSSR.
(Cyclopentadiene) (Deutrium)

MIRONOV, V.A.; MAVROV, M.V.; YELIZAROVA, A.N.

Substituted cyclopentadienes and related compounds. Part 1: 1,3-Dimethylcyclopentadiene. Zhur.ob.khim. 32 no.8:2723-2731 (MIRA 15:9)

1. Institut organicheskoy khimii AN SSSR imeni N.D. Zelinskogo. (Cyclopentadiene)

MIRONOV, V.A.; YELIZAROVA, A.E.

Substituted cyclopentadienes and related compounds. Part 2: 1,3-Dimethylcyclopentadiene. Zhur.ob.khim. 32 no.8:2731-2738 Ag (MIRA 15:9)

1. Institut organicheskoy khimii AN SSSR imeni N.D. Zelinskogo. (Cyclopentadiene)

MIRONOV, V.A.; MAVROV, M.V.; YELIZAROVA, A.N.

Substituted cyclopentadienes and related compounds. Part 3: 3,5- and 2,4-Dimethylcyclopentenes. Zhur.ob.khim. 32 no.8:2739-2742 Ag '62. (MIRA 15:9)

1. Institut organicheskoy khimii AN SSSR imeni N.D. Zelinskogo. (Cyclopentene)

MIRONCV, V.A.; SOBOLEV, Ye.V.; YELIZAROVA, A.N.

CONTROL OF THE CONTRO

Monodeuteroc, clopentadiene. Dokl. AN SSSR 143 no.5:1112-1115 Ap '62. /MIRA 15:4/

1. Institut organicheskoy Phimii im. N.D.Zelinskogo AN SSSR i Komissiya po spektroskopii AN SSSR. Predstavleno akademikom A.A.Balandinym.

(Cyclopentadiene) (Deuterium compounde)

MIRONOV, V.A.; SOBOLEV, Ye.V.; YELIZAROVA, A.N.

Methylcyclopentadiene as an equilibrium mixture of isomers.

Dokl. AN SSSR 146 no.5:1098-1101 0 '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i Komissiya po spektroskopii AN SSSR. Predstavleno akademikom B.A.Kazanskim.

(Cyclopentadiene)

\$/079/63/033/001/006/023 D204/D307

AUTHORS:

Mironov, V. A., Fadeyeva, T. M., Sobolev, Ye. V. and

Yelizarova, A. N.

TITLE:

Substituted cyclopentadienes and related compounds. VI. Tetramethylcyclopentadiene as an equilibrium mix-

ture of isomers

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 84-91

TEXT: A continuation of previous work (DAN SSSR, 143, 1112 (1962)). The present study was aimed at an investigation of the isomerization of tetramethylcyclopentadiene (A) by analogy with the isomerism of dimethylcyclopentadienes studied in an earlier work. The isomeric mixture  $\tilde{A}$  was prepared from MeMgI/Et<sub>2</sub>0 and 2,3,4-trimethyl- $\Delta^2$ -

cyclopentenone (obtained by the method of Nazarov et al (Izv. AN SSSR, OKhN, 1946, 529), decomposing the reaction mixture with (a) diluted HCl at ~30°C, and (b) crushed ice at 0°C. The yields of A were respectively 66 and 72%. 70% of the mixture was found to be

Card 1/2

Substituted cyclopentadienes ...

S/079/63/033/001/006/023 D204/D307

the isomer 1,2,3,4-tetramethylcyclopentadiene (I); the 1,2,4,5,form (III) and probably the 1,2,3,5-form (II) were also present.
Almost pure III was obtained by slow rectification of A on a highefficiency column, at 50 - 60°C, under vacuum; this could be reversed to form I by heating. Formation of the energetically less
favorable isomer III is ascribed to stopping A from attaining thermodynamic equilibrium. Adducts of maleic anhydride (MA), with I and
III were prepared in 68 - 76% yields (ether-benzene solutions,
ing dicarboxylic acid and dimethyl ester from the adduct of MA with
I; the corresponding y-lactone acid and its methyl ester from the
adduct of MA with II) were prepared. The advice of V. T. Aleksanyan
is acknowledged. There are 2 figures.

ASSOCIATION:

Institut organicheskoy khimii imeni N. D. Zelinskogo. Komissiya po spektroskopii Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy. Spectroscopy Commission of the Academy of Sciences of the USSR)

SUBMITTED: Card 2/2

December 11, 1961

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MIRONOV, V.A.; SOBOLEV, Ye.V.; YELIZAROVA, A.N.

Suistituted cyclopentadienes and related compounds. Report No.10: Three isomeric methylcyclopentadienes. Izv. AN SSSR. Ser.khim. no.9:1607-1617 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR; Komissiya po spektroskopii AN SSSR i Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Cyclopentadiene)

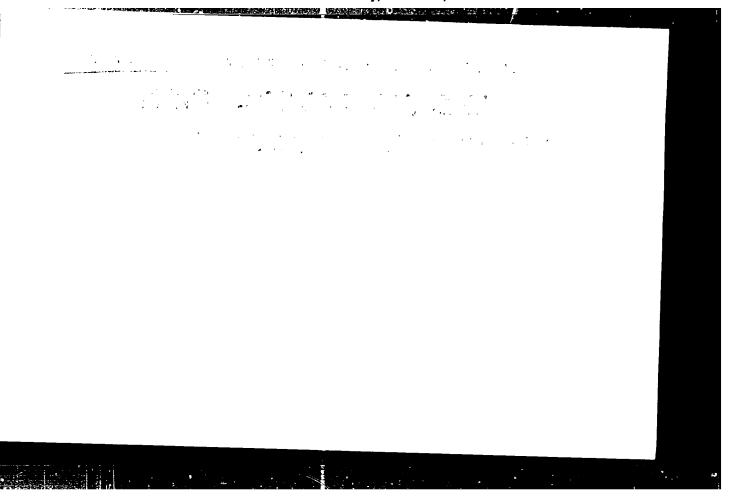
SOBOLEV, Ye.V.; ALEKSANYAN, V.T.; MIRONOV, V.A.

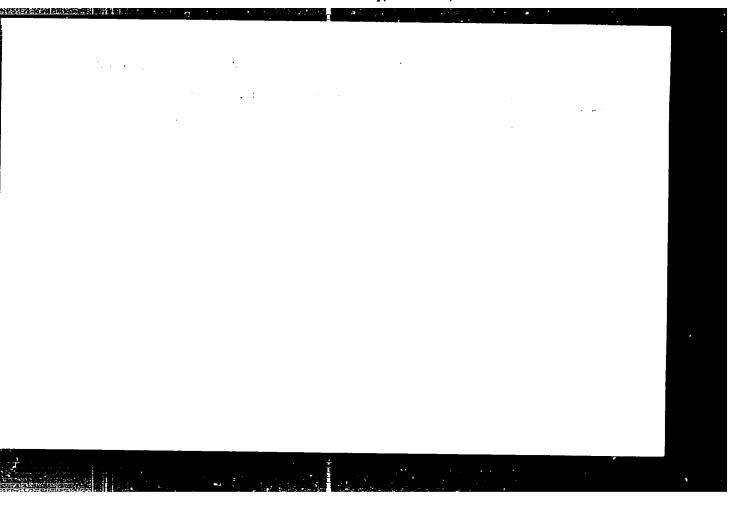
Vibration spectra of cyclopentadiene and monodeuterocyclopentadienes.

Dokl. AN SSSR 152 no.4:923-926 0 '63. (MIRA 16:11)

Komissiya po spektroskopii AN SSSR. Predstavleno akademikom
 B.A. Kazanskim.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134





EYECTOR, U.F.; STWA VANT, A.F.; W BORD, U.A.

Stocking of ocenical compounds studied by means of nuclear prometic resonance spectra. Part Aiddites of substituted cycloper ordines with maleic onlygoride and their derivatives.

Zhur, ob Albo, W. Fr. 1912 39-1820 T. P. P. (1915)

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